



05CF 381
Wisconsin Department of Justice
Division of Law Enforcement Services
State Crime Laboratory - Madison
4626 University Avenue
Madison, Wisconsin 53705-2156
608/266-2031
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Submitting Agency:

Date: November 14, 2005

Sheriff Jerry A. Pagel
Attn: Matthew Joy
Calumet County Sheriff's Office
206 Court St.
Chilton, WI 53014

Case No: M05-2467

Agency No.: 05-0157-955

Laboratory Analyst:

MANITOWOC COUNTY
STATE OF WISCONSIN
FILED

DEC 6 2005

Case Name: Halbach, Teresa M. (V) - **CLERK OF CIRCUIT COURT**
Town of Gibson, Manitowoc
County, Wisconsin

Sherry E. Culhane
Sherry E. Culhane
gca (DNA Analysis)

I do hereby certify this document, consisting of 4 page(s), to be a true and correct report of the findings of the State Crime Laboratory on the items examined as shown by this report.

Peggy A. Lautenschlager
ATTORNEY GENERAL

Designee: *Kevin B. Varma*

SIGNATURE

The following items of evidence were recovered from a blue four-door Toyota RAV4, VIN# JT3HP10V5X7113044 and examined in the DNA Unit of this Laboratory:

- Item A1 - questioned stain recovered from the rear cargo area
- Item A2 - questioned stain recovered from the panel across rear of cargo area
- Item A3 - questioned stain recovered from the inside of rear cargo door
- Item A4 - questioned stain recovered from metal frame around rear door opening
- Item A5 - hair recovered from the back seat
- Item A6 - questioned stain cut from the driver's seat
- Item A7 - reddish/brown crusts recovered from the floor between center console and drivers seat
- Item A8 - questioned stain recovered from an area to the right of the ignition
- Item A9 - questioned stain cut from the front passenger seat
- Item A10 - questioned stain recovered from a black CD case
- Item A11 - questioned material recovered from the cargo area, driver's side floor
- Item A12 - questioned stain recovered from the metal panel around the rear passenger door entrance



- Item A13a- swabbings from the "Compact Flash card" recovered from the cargo area
- Item A14 - one "Wild Cherry Pepsi" can recovered from the front console
- Item A23 - swabbing from the rear exterior door handle of cargo door.

In addition apparent hairs were recovered from items A1 and A4, no examinations were conducted at this time.

The following items of evidence were recovered from a blue Pontiac Grand AM, VIN#1G2NW14N9PC726145 and examined in the DNA Unit of this Laboratory:

- Item B1 - questioned stain recovered from the passenger side of the front console
- Item B2 - questioned stain recovered from the top of the center console
- Item B3 - questioned stain recovered from the center console near the rear window button
- Item B4 - questioned stain recovered from the gear shaft
- Item B5 - questioned stain cut from the back seat driver's side.

The following items were also examined in the DNA Unit of this Laboratory:

- Item C - one Toyota key attached to a blue key ring
- Item D1 - one red handled toothbrush reportedly belonging to Teresa Halbach.

RESULTS

Chemical analysis of the reddish/brown questioned stains of items A1-A4, A6-A10, A11, A12, A23 and B1-B5 indicated the presence of blood.

Human deoxyribonucleic acid (DNA) was isolated from items A1, A6, A8, A9, A12, A13a, A14, B1-5, C and D1. The DNA was amplified using the polymerase chain reaction (PCR) method and typed for fifteen short tandem repeat (STR) genetic markers as well as the gender marker Amelogenin using the Promega PowerPlex® 16 amplification kit. The DNA profiles obtained are listed in the following table:

Genetic Marker	Items A1 & A14	Items A6,A8,A9,A12,B1,B3, B4,B5 & C
D3S1358	16,18	16,18
TH01	6,9.3	9.3
D21S11	28,34.2	28,30
D18S51	14,16	14,20
Penta E	5,7	5,10
D5S818	12,13	11,12
D13S317	12,13	8,12
D7S820	11	7,10
D16S539	12,13	11,14
CSF1PO	10	12
Penta D	11,13	10,11
vWA	16	15,19
D8S1179	11,15	10,15
TPOX	10,11	9,11
FGA	21,22	20,26
Amelogenin	X	X,Y

X - female X,Y - male

The profile developed from items A1 and A14 are consistent with originating from the same female individual.

The profile developed from items A6, A8, A9, A12, B1, B3, B4, B5 and C are consistent with originating from the same male individual.

No DNA profile was obtained from items B2 and D1.

Item A13a was not utilized for STR/DNA analysis.

A keyboard search of the profile from item A6 on November 10, 2005 against the Wisconsin DNA Databank resulted in a match to a DNA profile contained in the Convicted Offender Index. The information regarding this Convicted Offender sample is as follows:

Databank number: D94-1970
Offender name: Steven Allen Avery
Date of birth: 07/09/1962
Race/Sex: Caucasian/male
State identification number: 161920
Department of Corrections number: 122987
FBI number: 749102AA1

This match should be considered an investigative lead. Confirmation of this DNA match requires the submission of a biological standard from this individual to the Wisconsin State Crime Laboratory-Madison.

CONCLUSION

A biological standard from Steven Allen Avery must be submitted to this Laboratory for confirmation of the match to the STR DNA profile obtained from item A6.

The DNA profile developed from items A1 and A14 is consistent with originating from the same female individual. Any further interpretations will require the submission of additional biological standards.

Evidence Disposition: All items will be returned to the submitting agency upon completion of all analysis.



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Submitting Agency:

Sheriff Jerry A. Pagel
Attn: Matthew Joy
Calumet County Sheriff's Office
206 Court St.
Chilton, WI 53014

Date: December 5, 2005

Case No: M05-2467

Agency No.: 05-0157-955

Laboratory Analyst:

Case Name: Halbach, Teresa M. (V) -
Town of Gibson, Manitowish
County, Wisconsin

MANITOWISH COUNTY
STATE OF WISCONSIN
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CLERK OF CIRCUIT COURT

Sherry L. Culhane
Sherry L. Culhane
(DNA Analysis)

I do hereby certify this document, consisting of 3 page(s), to be a true and correct report of the findings of the State Crime Laboratory on the items examined as shown by this report.

Peggy A. Lautenschlager
ATTORNEY GENERAL

Designee:

Kara L. Vassallo
SIGNATURE

The following items of evidence were examined in the DNA Unit of this Laboratory:

- Item V - one black handled steak knife
- Item AM- stained rocks reportedly collected from a gravel mound
- Item AN- possible "tissue" reportedly collected from a gravel mound
- Item BY- numerous small pieces of apparent charred material
- Item BZ- two pieces of apparent charred material
- Item CA- three pieces of apparent charred material.

The following items of evidence were submitted to be utilized as comparison standards:

- Item AY- buccal cell standard reportedly collected from Allan K. Avery
- Item BS- buccal cell standard reportedly collected from Bryan J. Dassey
- Item BU- buccal cell standard reportedly collected from Steven Avery
- Item EF- three pap smear slides reportedly collected from Teresa Halbach.



RESULTS

Human deoxyribonucleic acid (DNA) was isolated from the apparent charred remains (item BZ), the buccal cell standards from Allan Avery (item AY), Bryan Dassey (item BS) and Steven Avery (item BU) as well as a pap smear slide reportedly from Teresa Halbach (item EF).

The DNA was amplified using the polymerase chain reaction (PCR) method and typed for fifteen short tandem repeat (STR) genetic markers as well as the gender marker Amelogenin using the Promega PowerPlex® 16 amplification kit (STR markers: D3S1358, TH01, D21S11, D18S51, and Penta E, D5S818, D13S317, D7S820, D16S539, CSF1PO, Penta D, vWA, D8S1179, TPOX and FGA).

The profile previously developed from items A6, A8, A9, A12, B1, B3, B4, B5 and C (See Laboratory Report No. M05-2467 issued November 14, 2005 by this analyst) is **consistent** with the profile developed from the buccal cell standard of Steven Avery (item BU). This profile is **not consistent** with the profiles developed from the buccal cell standards of Allan Avery (item AY) or Bryan Dassey (item BS).

Chemical analysis of reddish/brown staining present on the steak knife (item V) **did not** indicate the presence of blood.

Chemical analysis of reddish/brown stains from the rocks (item AM) and the possible "tissue" (item AN) indicated the presence of blood; however these stains were **not** human in origin.

The profile previously developed from the soda can (item A14) and the reddish/brown stain (item A1) from the cargo area of the RAV4 vehicle (See Laboratory Report No. M05-2467 issued November 14, 2005 by this analyst) is **consistent** with the profile developed from the pap smear slide reportedly collected from Teresa Halbach (item EF).

A partial profile, at seven loci, as well as the gender marker Amelogenin, was developed from the apparent charred material (item BZ). This profile is **consistent** with the profile developed from the pap smear slide reportedly collected from Teresa Halbach (item EF).

The small pieces of apparent charred material (item BY) were **not suitable** for autosomal DNA typing methods. No examinations were conducted on this item. The amount of DNA isolated from the

charred material (item CA) was insufficient for DNA/STR typing methods.

CONCLUSIONS

It is the opinion of this analyst, to a reasonable degree of scientific certainty, that Steven Avery is the source of the DNA isolated from the reddish/brown stains from items A6, A8, A9, A12, B1, B3, B4, B5 and C (See Laboratory Report No. M05-2467 issued November 14, 2005 by this analyst).

Based on the partial DNA profile developed from the pap smear slide reportedly collected from Teresa Halbach (item EF) it is the opinion of this analyst, to a reasonable degree of scientific certainty, that Teresa Halbach is the source of the DNA isolated from the swabbing of a soda can (item A14) and the reddish/brown stains (item A1) from the cargo area of the RAV4 vehicle (item A).

The partial profile developed from the charred remains of item BZ is consistent with the partial profile developed from the pap smear reportedly collected from Teresa Halbach (item EF). The probability of randomly selecting an unrelated individual with this same profile is approximately 1 person in 1 billion in the Caucasian population, 1 person in 2 billion in the African American and Southeastern Hispanic populations and 1 person in 3 billion in the Southwestern Hispanic population.

These conclusions are based on population statistics derived from a database of unrelated Caucasian, African American, Southeastern Hispanic and Southwestern Hispanic populations obtained from the Federal Bureau of Investigation (FBI).

Evidence disposition: Upon completion of all relevant analyses all items will be returned to the submitting agency.